

## Tier I, II, & III Non Road Diesel Engine Emissions Standards

Emissions Standards are presented as NMHC + NO<sub>x</sub>/CO/PM in g/bhp-hr.<sup>a</sup>

hp	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<11	No Standards established				7.8 6.0 0.75				5.6 6.0 0.60				
≥ 11 < 25					7.1 4.9 0.6				5.6 4.9 0.60				
≥ 25 < 50	No Standards established			7.1 4.1 0.6				5.6 4.1 0.45					
≥ 50 < 100				N/A <sup>d</sup> 6.9 N/A N/A				5.6 3.7 0.30				3.5 3.7 0.3 <sup>c</sup>	
≥ 100 < 175				N/A <sup>d</sup> 6.9 N/A N/A				4.9 3.7 0.22				3.0 3.7 0.22 <sup>c</sup>	
≥ 175 < 300				1.0 <sup>b</sup> 6.9 8.5 0.40				4.9 2.6 0.15				3.0 2.6 0.15 <sup>c</sup>	
≥ 300 < 600	1.0 <sup>b</sup> 6.9 8.5 0.40							4.8 2.6 0.15				3.0 2.6 0.15 <sup>c</sup>	
≥ 600 £ 750				1.0 <sup>b</sup> 6.9 8.5 0.40				4.8 2.6 0.15				3.0 2.6 0.15 <sup>c</sup>	
> 750	No Standards established				1.0 <sup>b</sup> 6.9 8.5 0.40				4.8 2.6 0.15				

- a.  Tier 1       Tier 2       Tier 3
- b. Standards are given as HC/ NO<sub>x</sub>/CO/PM in g/bhp-hr
- c. PM values are carried over from Tier 2 to Tier 3

**Potential Tier IV Non Road Diesel Engine Emissions Standards**

hp	PM (g/bhp-hr)	HC+NOx (g/bhp-hr)	Implementation Date
<11	0.3	To Be Determined	To Be Determined
≥ 11 < 25			
≥ 25 < 50	0.22		
≥ 50 < 100	0.02	0.48	
≥ 100 < 175		0.41	
≥ 175 < 300			
≥ 300 < 600			
≥ 600 £ 750			
> 750		To Be Determined	